RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	/0/579.//7
Source:	IFWP,
Date Processed by STIC:	5/25/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

ial Number: 10/579,//7	CRF Edit Date: 5/25/0 Edited by: 12
Realigned nucleic acid/amino acid nurtext "wrapped" to the next line	mbers/text in cases where the sequence
Corrected the SEQ ID NO. Sequence	numbers edited were:
_ Inserted or corrected a nucleic number NO's edited:	er at the end of a nucleic line. SEQ ID
Deleted: invalid beginning/end-or	f-file text ; page numbers
_ Inserted mandatory headings/numeri	c identifiers, specifically:
Moved responses to same line as head	ling/numeric identifier, specifically:
Other:	·

Revised 09/09/2003



IFWP

RAW SEQUENCE LISTING DATE: 05/25/2006
PATENT APPLICATION: US/10/579,117 TIME: 11:28:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05252006\J579117.raw

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3 <110> APPLICANT: ASTRAZENECA AB
      5 <120> TITLE OF INVENTION: CARBOXYPERTIDASE U (CPU) MUTANTS
      7 <130> FILE REFERENCE: LDG/101278
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/579,117
C--> 9 <141> CURRENT FILING DATE: 2006-05-11
      9 <160 > NUMBER OF SEQ ID NOS: 19
     11 <170> SOFTWARE: PatentIn version 3.2
     13 <210> SEQ ID NO: 1
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     15 <212> TYPE: DNA
    16 <213> ORGANISM: Homo sapiens
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                                                                              120
    23 gttctacaga atcttactac aacatatgag attgttctct ggcagccggt aacagctgac
                                                                              180
     25 cttattgtga agaaaaaaca agtccatttt tttgtaaatg catctgatgt cgacaatgtg
                                                                              240
    27 aaagcccatt taaatgtgag cggaattcca tgcagtgtct tgctggcaga cgtggaagat
                                                                              300
     29 cttattcaac agcagatttc caacgacaca gtcagccccc gagcctccgc atcgtactat
                                                                              360
                                                                              420
     31 gaacagtatc actcactaaa tgaaatctat tcttggatag aatttataac tgagaggcat
     33 cctgatatgc ttacaaaaat ccacattgga tcctcatttg agaagtaccc actctatgtt
                                                                              480
    35 ttaaaggttt ctggaaaaga acaagcagcc aaaaatgcca tatggattga ctgtggaatc
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    37 catgccagag aatggatete teetgettte tgettgtggt teataggeea tataaeteaa
                                                                              600
    39 ttctatggga taatagggca atataccaat ctcctgaggc ttgtggattt ctatgttatg
                                                                              660
     41 ccggtggtta atgtggatgg ttatgactac tcgtggaaaa agaatcgaat gtggagaaag
                                                                              720
                                                                              780
     43 aaccgttett tetatgegaa caateattge ateggaacag acetgaatag gaactttget
                                                                              840
     45 tecaaacact ggtgtgagga aggtgcatee agtteeteat geteggaaac etaetgtgga
                                                                              900
     47 ctttatcctg agtcagaacc agaagtgaag gcagtggcta gtttcttgag aagaaatatc
     49 aaccagatta aagcatacat cagcatgcat tcatactccc agcatatagt gtttccatat
                                                                              960
    51 tectatacae gaagtaaaag caaagaecat gaggaaetgt etetagtage cagtgaagea
                                                                             1020
    53 gttcgtgcta ttgagaaaac tagtaaaaat accaggtata cacatggcca tggctcagaa
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                                                                             1140
    55 accttatacc tagctcctgg aggtggggac gattggatct atgatttggg catcaaatat
    57 tegtttacaa ttgaactteg agataeggge acataeggat tettgetgee ggagegttae
                                                                             1200
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    66 <212> TYPE: PRT
    67 <213> ORGANISM: Homo sapiens
    69 <400> SEQUENCE: 2
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    72 1
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     75 Glu Gln His Val Phe Ala Phe Gln Ser Gly Gln Val Leu Ala Ala Leu
     76
                    20
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RAW SEQUENCE LISTING DATE: 05/25/2006
PATENT APPLICATION: US/10/579,117 TIME: 11:28:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05252006\J579117.raw

79 Pro Arg Thr Ser Arg Gln Val Gln Val Leu Gln Asn Leu Thr Thr 83 Tyr Glu Ile Val Leu Trp Gln Pro Val Thr Ala Asp Leu Ile Val Lys 55 87 Lys Lys Gln Val His Phe Phe Val Asn Ala Ser Asp Val Asp Asn Val 70 91 Lys Ala His Leu Asn Val Ser Gly Ile Pro Cys Ser Val Leu Leu Ala 85 90 95 Asp Val Glu Asp Leu Ile Gln Gln Gln Ile Ser Asn Asp Thr Val Ser 105 99 Pro Arg Ala Ser Ala Ser Tyr Tyr Glu Gln Tyr His Ser Leu Asn Glu 120 103 Ile Tyr Ser Trp Ile Glu Phe Ile Thr Glu Arg His Pro Asp Met Leu 135 107 Thr Lys Ile His Ile Gly Ser Ser Phe Glu Lys Tyr Pro Leu Tyr Val 150 155 111 Leu Lys Val Ser Gly Lys Glu Gln Ala Ala Lys Asn Ala Ile Trp Ile 165 170 115 Asp Cys Gly Ile His Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Leu 180 185 119 Trp Phe Ile Gly His Ile Thr Gln Phe Tyr Gly Ile Ile Gly Gln Tyr 195 200 123 Thr Asn Leu Leu Arg Leu Val Asp Phe Tyr Val Met Pro Val Val Asn 215 127 Val Asp Gly Tyr Asp Tyr Ser Trp Lys Lys Asn Arg Met Trp Arg Lys 230 235 131 Asn Arg Ser Phe Tyr Ala Asn Asn His Cys Ile Gly Thr Asp Leu Asn 245 135 Arg Asn Phe Ala Ser Lys His Trp Cys Glu Glu Gly Ala Ser Ser Ser 260 265 139 Ser Cys Ser Glu Thr Tyr Cys Gly Leu Tyr Pro Glu Ser Glu Pro Glu 280 143 Val Lys Ala Val Ala Ser Phe Leu Arg Arg Asn Ile Asn Gln Ile Lys 295 300 147 Ala Tyr Ile Ser Met His Ser Tyr Ser Gln His Ile Val Phe Pro Tyr 310 315 151 Ser Tyr Thr Arg Ser Lys Ser Lys Asp His Glu Glu Leu Ser Leu Val 325 330 155 Ala Ser Glu Ala Val Arg Ala Ile Glu Lys Thr Ser Lys Asn Thr Arg 345 159 Tyr Thr His Gly His Gly Ser Glu Thr Leu Tyr Leu Ala Pro Gly Gly 360 163 Gly Asp Asp Trp Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile 375 380 167 Glu Leu Arg Asp Thr Gly Thr Tyr Gly Phe Leu Leu Pro Glu Arg Tyr 390 395 171 Ile Lys Pro Thr Cys Arg Glu Ala Phe Ala Ala Val Ser Lys Ile Ala 410 405 175 Trp His Val Ile Arg Asn Val

RAW SEQUENCE LISTING DATE: 05/25/2006
PATENT APPLICATION: US/10/579,117 TIME: 11:28:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05252006\J579117.raw

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194 <213> ORGANISM: Artificial
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197 <223> OTHER INFORMATION: Oligonucleotide Primer
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206 <213> ORGANISM: Artificial
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Oligonucleotide Primer
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217 <210> SEQ ID NO: 6
218 <211> LENGTH: 66
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Oligonucleotide Primer
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236 <220> FEATURE:
237 <223> OTHER INFORMATION: Oligonucleotide
239 <400> SEQUENCE: 7
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247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial
250 <220> FEATURE:
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RAW SEQUENCE LISTING DATE: 05/25/2006
PATENT APPLICATION: US/10/579,117 TIME: 11:28:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05252006\J579117.raw

251 <223> OTHER INFORMATION: Oligonucleotide Primer 253 <400> SEQUENCE: 8 254 acccattgtt ctcttctg 18 257 <210> SEQ ID NO: 9 258 <211> LENGTH: 20 259 <212> TYPE: DNA 260 <213> ORGANISM: Artificial 262 <220> FEATURE: 263 <223> OTHER INFORMATION: Oligonucleotide Primer 265 <400> SEQUENCE: 9 20 266 ttggtcttgc tggaatcagt 269 <210> SEQ ID NO: 10 270 <211> LENGTH: 57 271 <212> TYPE: DNA 272 <213> ORGANISM: Artificial 274 <220> FEATURE: 275 <223> OTHER INFORMATION: Oligonucleotide Primer 277 <400> SEQUENCE: 10 278 ccaagettea teccaacage aattttetet agatetggtg aagetggage taeggag 57 281 <210> SEQ ID NO: 11 282 <211> LENGTH: 18 283 <212> TYPE: DNA 284 <213> ORGANISM: Artificial 286 <220> FEATURE: 287 <223> OTHER INFORMATION: Oligonucleotide Primer 289 <400> SEOUENCE: 11 290 tgccaaaggg gcggtccc 18 293 <210> SEQ ID NO: 12 294 <211> LENGTH: 422 295 <212> TYPE: PRT 296 <213> ORGANISM: Mus musculus 298 <400> SEQUENCE: 12 300 Met Lys Leu His Gly Leu Gly Ile Leu Val Ala Ile Ile Leu Tyr Glu 10 304 Gln His Gly Phe Ala Phe Gln Ser Gly Gln Val Leu Ser Ala Leu Pro 308 Arg Thr Ser Arg Gln Val Gln Leu Leu Gln Asn Leu Thr Thr Tyr 35 40 312 Glu Val Val Leu Trp Gln Pro Val Thr Ala Glu Phe Ile Glu Lys Lys 313 55 316 Lys Glu Val His Phe Phe Val Asn Ala Ser Asp Val Asp Ser Val Lys 317 65 70 320 Ala His Leu Asn Val Ser Arg Ile Pro Phe Asn Val Leu Met Asn Asn 324 Val Glu Asp Leu Ile Glu Gln Gln Thr Phe Asn Asp Thr Val Ser Pro 325 105 110 328 Arg Ala Ser Ala Ser Tyr Tyr Glu Gln Tyr His Ser Leu Asn Glu Ile 120 332 Tyr Ser Trp Ile Glu Val Ile Thr Glu Gln His Pro Asp Met Leu Gln

RAW SEQUENCE LISTING DATE: 05/25/2006 PATENT APPLICATION: US/10/579,117 TIME: 11:28:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05252006\J579117.raw

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	Lys		Tvr	Ile	Glv	Ser		Phe	Glu	Lvs	Tvr		Leu	Tvr	Val	Leu
	145		-1-		- 2	150					155			-1-		160
	Lys	٧al	Ser	Glv	Lvs		Gln	Ara	Tle	Lvs		Ala	Ile	Trp	Tle	
341	-		-	0-1	165			5		170					175	
_	Cys	Glv	Tle	His		Ara	Glu	Trn	Tle		Pro	Ala	Phe	Cvs		Tro
345	Cyb	017		180		5	014		185	001		•		190		
	Phe	Tle	Glv		٧al	Thr	Gln	Phe		Glv	Lvs	Glu	Asn		Tvr	Thr
349			195	-1-	• • • •			200			270		205		-] -	
	Arg	I.en		Ara	His	Val	Asn		Tvr	Tle	Met	Pro		Met	Asn	Val
353	_	210	204	9			215		-1-			220				
	Asp		Tvr	Asp	Tvr	Thr	_	Lvs	Lvs	Asn	Ara		Trp	Ara	Lvs	Asn
	225	017	-1-	1.0p	- 1 -	230		_,,	_,,	1.011	235		P		-7-	240
	Arg	Ser	Δla	His	Lvs		Asn	Ara	Cvs	Val		Thr	Asp	Len	Asn	
361		501			245		11011	9	CyD	250			1100		255	5
	Asn	Phe	Δla	Ser		His	Trn	Cvs	Glu		Glv	Ala	Ser	Ser		Ser
365				260				0,0	265		0_7			270		
	Cys	Ser	Glu		Tvr	Cvs	Glv	Len		Pro	Glu	Ser	Glu		Glu	Val
369	-	-	275		-1-	0,2	017	280	-1-				285			
	Lys	Ala		Ala	Asp	Phe	Leu		Ara	Asn	Ile	Asp		Ile	Lvs	Ala
373	_	290			·p		295	5	5			300			-1-	
	Tyr		Ser	Met	His	Ser	Tvr	Ser	Gln	Gln	Ile		Phe	Pro	Tvr	Ser
	305					310	-1-				315				-1-	320
380	Tyr	Asn	Arq	Ser	Lvs		Lvs	Asp	His	Glu		Leu	Ser	Leu	Val	
381	-1-				325					330					335	
	Ser	Glu	Ala	Val	Ara	Ala	Ile	Glu	Ser		Asn	Lvs	Asn	Thr	Arq	Tvr
385				340					345			•		350		•
	Thr	His	Gly	Ser	Gly	Ser	Glu	Ser	Leu	Tyr	Leu	Ala	Pro	Gly	Gly	Ser
389			355		•			360		-			365	-	-	
392	Asp	Asp	Trp	Ile	Tyr	Asp	Leu	Gly	Ile	Lys	Tyr	Ser	Phe	Thr	Ile	Glu
393	_	370	-		-	_	375	-		-	-	380				
396	Leu	Arg	Asp	Thr	Gly	Arg	Tyr	Gly	Phe	Leu	Leu	Pro	Glu	Arg	Tyr	Ile
	385	_	-		-	390	_	_			395			_	_	400
400	Lys	Pro	Thr	Cys	Ala	Glu	Ala	Leu	Ala	Ala	Ile	Ser	Lys	Ile	Val	Trp
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404	His	Val	Ile	Arg	Asn	Thr										
405				420												
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419	Lys	His	Gly	Leu	Ala	Phe	Gln	Ser	Gly	His	Val	Leu	Ser	Ala	Leu	Pro
420				20					25					30		
423	Arg	Thr	Ser	Arg	Gln	Val	Gln	Leu	Leu	${\tt Gln}$	Asn	Leu	Thr	Thr	Thr	Tyr
424			35					40					45			
427	Glu	Val	Val	Leu	Trp	Gln	Pro	Val	Thr	Ala	Glu	Phe	Ile	Glu	Lys	Lys

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/25/2006 PATENT APPLICATION: US/10/579,117 TIME: 11:28:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05252006\J579117.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,14,15,16

VERIFICATION SUMMARYDATE: 05/25/2006PATENT APPLICATION: US/10/579,117TIME: 11:28:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05252006\J579117.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING DATE: 05/23/2006
PATENT APPLICATION: US/10/579,117 TIME: 14:27:02

Input Set : A:\Carboxypertidase U (CPU) Mutants.txt

Output Set: N:\CRF4\05232006\J579117.raw

- 3 <110> APPLICANT: ASTRAZENECA AB
- 5 <120> TITLE OF INVENTION: CARBOXYPERTIDASE U (CPU) MUTANTS
- 7 <130> FILE REFERENCE: LDG/101278
- C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/579,117
- C--> 9 <141> CURRENT FILING DATE: 2006-05-11
 - 9 <160> NUMBER OF SEQ ID NOS: 19

795 <210> SEQ ID NO: 19

11 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

Does Not Comply Corrected Diskette Needed

796 <211> LENGTH: 423 797 <212> TYPE: PRT 798 <213> ORGANISM: Homo sapiens 800 <400> SEQUENCE: 19 802 Met Lys Leu Cys Ser Leu Ala Val Leu Val Pro Ile Val Leu Phe Cys 806 Glu Gln His Val Phe Ala Phe Gln Ser Gly Gln Val Leu Ala Ala Leu 25 810 Pro Arg Thr Ser Arg Gln Val Gln Val Leu Gln Asn Leu Thr Thr Thr 40 814 Tyr Glu Ile Val Leu Trp Gln Pro Val Thr Ala Asp Leu Ile Val Lys 55 818 Lys Lys Gln Val His Phe Phe Val Asn Ala Ser Asp Val Asp Asn Val 70 75 822 Lys Ala His Leu Asn Val Ser Gly Ile Pro Cys Ser Val Leu Leu Ala 85 90 826 Asp Val Glu Asp Leu Ile Gln Gln Gln Ile Ser Asn Asp Thr Val Ser 100 105 830 Pro Arg Ala Ser Ala Ser Tyr Tyr Glu Gln Tyr His Ser Leu Asn Glu 115 834 Ile Tyr Ser Trp Ile Glu Phe Ile Thr Glu Arg His Pro Asp Met Leu 135 838 Thr Lys Ile His Ile Gly Ser Ser Phe Glu Lys Tyr Pro Leu Tyr Val 155 842 Leu Lys Val Ser Gly Lys Glu Gln Ala Ala Lys Asn Ala Ile Trp Ile 165 170 846 Asp Cys Gly Ile His Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Leu 180 185 850 Trp Phe Ile Gly His Ile Thr Gln Phe Tyr Gly Ile Ile Gly Gln Tyr 195 200 854 Thr Asn Leu Leu Arg Leu Val Asp Phe Tyr Val Met Pro Val Val Asn

RAW SEQUENCE LISTING DATE: 05/23/2006 PATENT APPLICATION: US/10/579,117 TIME: 14:27:03

Input Set : A:\Carboxypertidase U (CPU) Mutants.txt
Output Set: N:\CRF4\05232006\J579117.raw

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862	Asn	Arg	Ser	Phe	Tyr	Ala	Asn	Asn	His	Cys	Ile	Gly	Thr	Asp	Leu	Asn
863					245					250					255	
866	Arg	Asn	Phe	Ala	Ser	Lys	His	Trp	Cys	Glu	Glu	Gly	Ala	Ser	Ser	Ser
867				260					265					270		
870	Ser	Cys	Ser	Glu	Thr	Tyr	Cys	Gly	Leu	Tyr	Pro	Glu	Ser	Glu	Pro	Glu
871			275					280					285			
	Val		Ala	Val	Ala	Ser	Phe	Leu	Arg	Arg	Asn	Ile	Asn	Gln	Ile	Lys
875	_	290					295					300				
		Tyr	Ile	Ser	Met		Ser	Tyr	Ser	Gln		Ile	Val	Phe	Pro	Tyr
	305					310					315					320
	Ser	Tyr	Thr	Arg		Lys	Cys	Lys	Asp		Glu	Glu	Leu	Ser		Val
883		_		- -	325		_	_	_	330					335	
	Ala	Ser	Glu		Val	Arg	Ala	Ile		Lys	Thr	Ser	Lys		Thr	Arg
887	_	-1	_	340	~7		_		345	_	_	_		350		
	туr	Thr		GIY	GIn	GIY	Ser		Thr	Leu	Tyr	Leu		Pro	Gly	Gly
891	01	7	355	m	· ₋₃ -	m	•	360	~1		_	_	365			
			Asp	Trp	тте	Tyr		Leu	GIY	тте	ьуs		Ser	Phe	Thr	He
895		370	7~~	7 ~~	Th w	~1	375	Ma	~ 1	mh -	T	380	D	01	3	
	385	ьeu	Arg	Asp	1111	390	IIII	Tyr	GIY	Pne		ьeu	Pro	GIU	Arg	Tyr
		Lare	Pro	Thr	Cvc		C111	777	Dho	ח ד ת	395	₹7 ~]	Com	T	т1.	400
903	. 116	цуз	FIO	1111	405	Arg	Giu	міа	File	410	Ата	vai	ser	ьуѕ	415	ALA
	Trn	His	Val	Tle		Δen	Val			410					413	
907				420	••••	11011	Vul									
	1012	278	1	,												
915	-	1	-	-												
(

E-->

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/23/2006 PATENT APPLICATION: US/10/579,117 TIME: 14:27:04

Input Set : A:\Carboxypertidase U (CPU) Mutants.txt

Output Set: N:\CRF4\05232006\J579117.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,14,15,16

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/579,117

DATE: 05/23/2006 TIME: 14:27:04

Input Set : A:\Carboxypertidase U (CPU) Mutants.txt

Output Set: N:\CRF4\05232006\J579117.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:913 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:19

M:332 Repeated in SeqNo=19